

**Brilliant Violet 711™ anti-human CD146**

**Catalog # / Size:** 2405155 / 25 tests  
2405160 / 100 tests

**Clone:** P1H12

**Isotype:** Mouse IgG1, κ

**Immunogen:** Cultured human umbilical cells

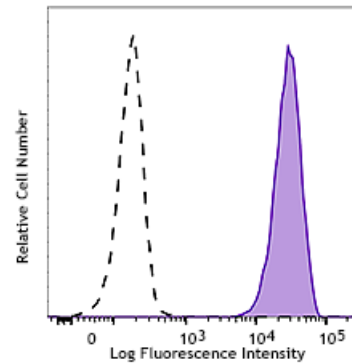
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Workshop Number:** HCDM listed

**Concentration:** Lot-specific



Human cervical cancer cell line, HeLa, was stained with CD146 (clone P1H12) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats of this clone) include: Western blotting<sup>3</sup> and IHC<sup>1,5</sup>.

**Application  
References:**

1. Solovey A, *et al.* 1997. *N. Engl. J. Med.* 337:1584. (FC, IHC)
  2. Lamerato-Kozicki AR, *et al.* 2006. *Exp. Hematol.* 34:870. (FC)
  3. Balint K, *et al.* 2005. *J. Clin. Invest.* 115:3166. (WB)
  4. Neskey DM, *et al.* 2008. *J. Exp. Clin. Cancer Res.* 27:61. (ELISA)
  5. Kamstock D, *et al.* 2006. *Cancer Gene Therap.* 13:306. (IHC)
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**Description:** CD146 is a 118 kD integral transmembrane glycoprotein that is also known as MUC18, S-Endo, MCAM, and Mel-CAM (melanoma cell adhesion molecule). It belongs to the immunoglobulin superfamily. CD146 is expressed on melanoma cells, epithelial cells, endothelial cells, fibroblasts, activated T cells, multipotent mesenchymal stromal cells, and activated keratinocytes. CD146 mediates heterophilic cell adhesion and regulates monocyte transendothelial migration. The ligand of CD146 remains to be identified.

**Antigen  
References:**

1. Pickl WF, *et al.* 1997. *J. Immunol.* 158:2107.
2. Weninger W, *et al.* 2000. *J. Invest. Dermatol.* 115:219.
3. Sorrentino A, *et al.* 2008. *Exp. Hematol.* 36:1035.
4. Bardin N, *et al.* 2009. *Arterioscler. Thromb. Vasc. Biol.* 29:746.